

**Appendix Table 4-23****Federal obligations for R&D and R&D plant, by agency, performer, and type of work: FY 2013**

(Millions of current dollars)

			Extramural performers							
				United States and U.S. territories						
Agency	All federal obligations	Federal intramural ^a	Business firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State and local governments	Foreign
Total R&D and R&D plant										
All agencies	127,297.3	33,642.6	49,769.6	3,875.6	26,008.6	3,958.0	6,099.1	2,821.7	385.8	736.3
Department of Agriculture	2,037.4	1,407.9	20.3	0.0	578.8	0.0	20.9	0.0	6.8	2.8
Department of Commerce	1,293.9	1,001.8	42.8	0.0	229.3	6.6	10.8	0.0	2.1	0.3
Department of Defense	63,654.7	20,338.9	39,216.0	326.6	2,073.1	321.8	389.3	557.3	27.0	404.7
Department of Education	309.9	14.1	12.5	0.0	224.0	0.0	59.3	0.0	0.0	0.0
Department of Energy	10,397.1	538.4	1,646.8	3,119.6	886.1	2,055.1	99.9	2,036.0	12.8	2.4
Department of Health and Human Services	29,512.8	6,206.8	1,467.8	394.9	16,551.8	36.2	4,423.3	18.2	151.4	262.6
Department of Homeland Security	718.8	272.3	205.1	19.6	60.7	11.0	11.4	138.7	0.0	0.1
Department of the Interior	717.3	635.9	19.2	0.0	51.4	0.0	2.4	0.0	7.8	0.6



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			Extramural performers							
				United States and U.S. territories						
Agency	All federal obligations	Federal intramural ^a	Business firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State and local governments	Foreign
Department of Justice	118.7	45.0	15.9	0.0	38.9	0.0	10.3	0.0	8.6	0.0
Department of Transportation	875.8	221.2	340.5	0.0	80.5	0.0	46.7	34.2	152.4	0.3
Department of Veterans Affairs	639.0	639.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for International Development	125.5	3.8	17.0	0.0	29.9	0.0	55.8	0.0	0.0	19.1
Environmental Protection Agency	529.7	252.3	202.7	0.0	73.2	0.5	0.0	1.0	0.0	0.1
National Aeronautics and Space Administration	10,494.3	1,612.0	6,278.2	0.6	879.3	1,320.8	360.7	19.8	1.9	20.8
National Science Foundation	5,328.5	44.5	213.1	0.0	4,241.0	202.9	590.1	4.0	14.8	18.2
Smithsonian Institution	240.3	240.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All other agencies	303.6	168.4	71.9	14.3	10.6	3.1	18.3	12.7	0.0	4.3
R&D										
All agencies	125,387.5	32,964.7	49,538.1	3,796.1	25,772.0	3,711.7	5,915.0	2,571.9	385.6	732.4
Department of Agriculture	2,020.6	1,391.1	20.3	0.0	578.8	0.0	20.9	0.0	6.8	2.8



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			Extramural performers							
				United States and U.S. territories						
Agency	All federal obligations	Federal intramural ^a	Business firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State and local governments	Foreign
Department of Commerce	1,092.2	842.8	42.8	0.0	186.7	6.6	10.8	0.0	2.1	0.3
Department of Defense	63,557.7	20,242.9	39,215.0	326.6	2,073.1	321.8	389.3	557.3	27.0	404.7
Department of Education	309.9	14.1	12.5	0.0	224.0	0.0	59.3	0.0	0.0	0.0
Department of Energy	9,841.0	538.4	1,631.5	3,040.0	864.1	1,822.9	99.9	1,828.8	12.8	2.4
Department of Health and Human Services	29,382.5	6,086.2	1,467.8	394.9	16,542.4	36.2	4,422.9	18.2	151.4	262.6
Department of Homeland Security	390.8	98.8	99.2	19.6	57.2	10.6	9.4	96.1	0.0	0.0
Department of the Interior	709.3	632.6	15.5	0.0	50.5	0.0	2.4	0.0	7.6	0.6
Department of Justice	118.7	45.0	15.9	0.0	38.9	0.0	10.3	0.0	8.6	0.0
Department of Transportation	855.0	221.1	319.7	0.0	80.5	0.0	46.7	34.2	152.4	0.3
Department of Veterans Affairs	639.0	639.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for International Development	125.5	3.8	17.0	0.0	29.9	0.0	55.8	0.0	0.0	19.1



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			Extramural performers							
				United States and U.S. territories						
Agency	All federal obligations	Federal intramural ^a	Business firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State and local governments	Foreign
Environmental Protection Agency	522.8	252.3	195.7	0.0	73.2	0.5	0.0	1.0	0.0	0.1
National Aeronautics and Space Administration	10,368.1	1,575.6	6,205.1	0.6	879.3	1,307.6	360.7	19.8	1.9	17.4
National Science Foundation	4,955.9	17.5	208.4	0.0	4,082.7	202.5	408.3	4.0	14.8	17.8
Smithsonian Institution	195.0	195.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All other agencies	303.6	168.4	71.9	14.3	10.6	3.1	18.3	12.7	0.0	4.3
Basic research										
All agencies	29,779.4	5,217.2	2,052.3	463.3	14,950.2	2,738.5	2,999.8	1,099.9	66.0	192.3
Department of Agriculture	844.2	604.2	0.0	0.0	230.4	0.0	7.1	0.0	1.2	1.4
Department of Commerce	190.6	160.3	6.5	0.0	23.3	0.0	0.3	0.0	0.0	0.2
Department of Defense	1,862.8	431.5	333.5	12.1	974.3	2.7	65.7	2.3	1.6	39.2
Department of Education	24.4	1.1	0.0	0.0	18.3	0.0	5.0	0.0	0.0	0.0
Department of Energy	3,851.1	47.0	184.1	237.4	662.6	1,598.5	45.1	1,073.8	0.0	2.4


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			Extramural performers							
				United States and U.S. territories						
Agency	All federal obligations	Federal intramural ^a	Business firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State and local governments	Foreign
All other agencies	0.1	0.1	0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	-0.0
Applied research										
All agencies	29,420.4	8,201.1	5,313.3	2,250.5	9,821.6	351.1	2,445.8	587.0	247.5	202.5
Department of Agriculture	1,025.2	647.4	20.3	0.0	338.2	0.0	12.6	0.0	5.5	1.1
Department of Commerce	832.6	633.6	32.7	0.0	153.8	1.5	9.4	0.0	1.6	0.1
Department of Defense	4,092.5	1,534.9	1,794.2	35.8	506.5	60.9	100.5	29.1	0.8	29.8
Department of Education	177.8	8.5	1.4	0.0	137.1	0.0	30.8	0.0	0.0	0.0
Department of Energy	3,482.3	348.8	303.9	2,005.0	142.5	142.6	25.4	508.2	5.8	0.0
Department of Health and Human Services	14,026.3	3,004.2	780.0	181.6	7,726.9	17.6	2,073.0	8.4	99.4	135.1
Department of Homeland Security	140.7	37.4	33.5	13.8	33.0	3.7	5.5	13.9	0.0	0.0
Department of the Interior	551.9	489.3	14.1	0.0	40.7	0.0	1.9	0.0	5.2	0.6
Department of Justice	57.1	5.4	14.1	0.0	28.8	0.0	6.9	0.0	1.8	0.0
Department of Transportation	647.5	170.8	251.0	0.0	70.6	0.0	19.8	8.9	126.1	0.3



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				United States and U.S. territories						
Agency	All federal obligations	Federal intramural ^a	Business firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State and local governments	Foreign
Department of Veterans Affairs	355.0	355.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for International Development	116.5	2.7	17.0	0.0	29.9	0.0	48.1	0.0	0.0	18.8
Environmental Protection Agency	446.2	215.4	156.1	0.0	73.2	0.5	0.0	1.0	0.0	0.1
National Aeronautics and Space Administration	2,598.2	591.2	1,698.7	0.0	124.5	121.1	45.6	4.9	0.4	11.7
National Science Foundation	594.4	0.5	134.4	0.0	406.7	0.2	51.3	0.0	0.8	0.5
Smithsonian Institution	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All other agencies	276.4	155.9	61.9	14.3	9.2	3.1	14.9	12.7	0.0	4.3
Development										
All agencies	66,187.8	19,546.3	42,172.6	1,082.3	1,000.2	622.1	469.5	885.1	72.1	337.6
Department of Agriculture	151.2	139.5	0.0	0.0	10.2	0.0	1.1	0.0	0.1	0.3
Department of Commerce	69.0	48.9	3.6	0.0	9.7	5.1	1.1	0.0	0.5	0.0
Department of Defense	57,602.4	18,276.5	37,087.3	278.8	592.4	258.2	223.2	525.9	24.6	335.8



National Science Board | **Science & Engineering Indicators 2016**

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Agency	All federal obligations	Federal intramural ^a	Business firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State and local governments	Foreign
Department of Education	107.7	4.5	11.1	0.0	68.6	0.0	23.5	0.0	0.0	0.0
Department of Energy	2,507.6	142.6	1,143.5	797.6	58.9	81.8	29.4	246.7	7.0	0.0
Department of Health and Human Services	67.9	30.8	0.0	0.0	24.0	0.0	8.9	0.0	4.2	0.0
Department of Homeland Security	250.2	61.4	65.7	5.8	24.3	6.9	4.0	82.2	0.0	0.0
Department of the Interior	106.0	95.0	1.3	0.0	7.2	0.0	0.3	0.0	2.1	0.0
Department of Justice	41.0	34.1	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0
Department of Transportation	200.3	43.2	68.7	0.0	9.8	0.0	26.9	25.3	26.3	0.0
Department of Veterans Affairs	35.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for International Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	76.6	37.0	39.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	4,945.7	585.4	3,741.8	0.1	193.7	270.0	147.7	5.0	0.5	1.5



National Science Board | Science & Engineering Indicators 2016

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Agency	All federal obligations	Federal intramural ^a	Business firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State and local governments	Foreign
National Science Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Smithsonian Institution	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All other agencies	27.1	12.4	9.9	0.0	1.4	0.0	3.4	0.0	-0.0	0.0
R&D plant										
All agencies	1,909.8	678.0	231.5	79.5	236.6	246.2	184.1	249.8	0.2	3.9
Department of Agriculture	16.8	16.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	201.7	159.0	0.0	0.0	42.6	0.0	0.0	0.0	0.0	0.0
Department of Defense	97.0	96.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Education	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	556.1	0.0	15.3	79.5	22.0	232.2	0.0	207.2	0.0	0.0
Department of Health and Human Services	130.3	120.5	0.0	0.0	9.4	0.0	0.4	0.0	0.0	0.0
Department of Homeland Security	327.9	173.6	105.9	0.0	3.4	0.4	1.9	42.6	0.0	0.1
Department of the Interior	8.0	3.3	3.7	0.0	0.9	0.0	0.0	0.0	0.2	0.0



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Agency	All federal obligations	Federal intramural ^a	Business firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State and local governments	Foreign
Department of Justice	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	20.9	0.1	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for International Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	7.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	126.2	36.5	73.1	0.0	0.0	13.2	0.0	0.0	0.0	3.4
National Science Foundation	372.6	27.0	4.7	0.0	158.3	0.4	181.8	0.0	0.0	0.4
Smithsonian Institution	45.3	45.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All other agencies	-0.0	-0.0	-0.0	0.0	0.0	0.0	-0.0	0.0	0.0	0.0

NOTES:

FFRDC = federally funded R&D center.

^a Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

Detail may not add to total because of rounding. Agencies included have a total annual R&D of \$100 million or more. All other agencies include Department of Housing and Urban Development, Department of Labor, Department of State, Department of the Treasury, Appalachian Regional Commission, Consumer Product Safety Commission, Federal Communications Commission, Federal Trade Commission, Library of Congress, National Archives and Records Administration, Nuclear Regulatory Commission, and Social Security Administration.



SOURCE:	National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development (FYs 2013–15). <i>Science and Engineering Indicators 2016</i>
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